

10/589907

=> log h

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.95	202.87
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.64

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:45:33 ON 22 OCT 2009

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* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CHEMCATS' AT 12:46:36 ON 22 OCT 2009
FILE 'CHEMCATS' ENTERED AT 12:46:36 ON 22 OCT 2009
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.95	202.87
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.64

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.95	202.87
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.64

FILE 'REGISTRY' ENTERED AT 12:46:45 ON 22 OCT 2009
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STRUCTURE FILE UPDATES: 20 OCT 2009 HIGHEST RN 1189242-76-9
DICTIONARY FILE UPDATES: 20 OCT 2009 HIGHEST RN 1189242-76-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

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TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> d his

(FILE 'HOME' ENTERED AT 12:37:10 ON 22 OCT 2009)

FILE 'REGISTRY' ENTERED AT 12:39:42 ON 22 OCT 2009

L1 STRUCTURE UPLOADED
L2 3 S L1
L3 STRUCTURE UPLOADED
L4 3 S L3
L5 49 S L3 SSS FULL

FILE 'CAPLUS' ENTERED AT 12:43:50 ON 22 OCT 2009

L6 2 S L5

FILE 'CHEMCATS' ENTERED AT 12:44:55 ON 22 OCT 2009

L7 0 S L5

FILE 'REGISTRY' ENTERED AT 12:46:45 ON 22 OCT 2009

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.48	203.35
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-1.64

FILE 'CAPLUS' ENTERED AT 12:46:58 ON 22 OCT 2009

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FILE COVERS 1907 - 22 Oct 2009 VOL 151 ISS 17

10/589907

FILE LAST UPDATED: 21 Oct 2009 (20091021/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2009

CAPLUS now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s 15

L8 2 L5

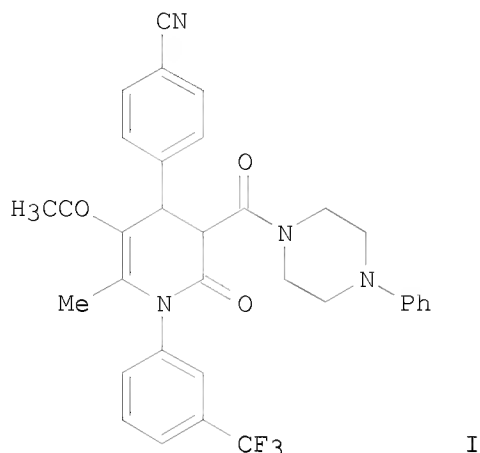
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L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:962241 CAPLUS
DN 143:266825
TI Preparation of dihydropyridinone derivatives for heart and lung disease
treatment
IN Gielen-Haertwig, Heike; Albrecht, Barbara; Bauser, Marcus; Keldenich,
Joerg; Li, Volkhart; Pernerstorfer, Josef; Schlemmer, Karl-Heinz; Telan,
Leila
PA Bayer Healthcare A.-G., Germany
SO PCT Int. Appl., 85 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2556463	A1	20050901	CA 2005-2556463	20050205
	EP 1720857	A1	20061115	EP 2005-701362	20050205
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	JP 2007523105	T	20070816	JP 2006-553484	20050205
	US 20080045541	A1	20080221	US 2007-589907	20070629
PRAI	EP 2004-3741	A	20040219		
	WO 2005-EP1192	W	20050205		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OS CASREACT 143:266825; MARPAT 143:266825

GI



AB The invention relates to novel dihydropyridinone derivs., processes for their preparation, and their use in medicaments, especially for the treatment of

chronic obstructive pulmonary diseases, acute coronary syndrome, acute myocardial infarction and heart failure development. I was prepared from the corresponding pyridinone-3-carboxylic acid, the synthesis of which is given, and 1-phenylpiperazine. Examples are also given for human neutrophil elastase assays, PMN elastolysis assays, acute lung injury model in rats, and acute myocardial infarction model in rats.

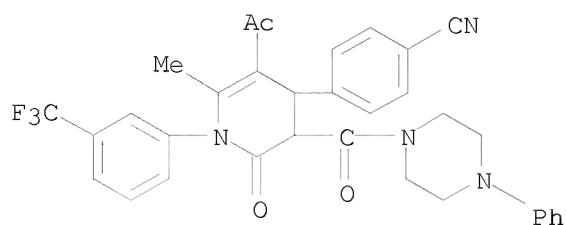
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	863646-00-8P		

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of dihydropyridinone derivs. for heart and lung disease treatment)

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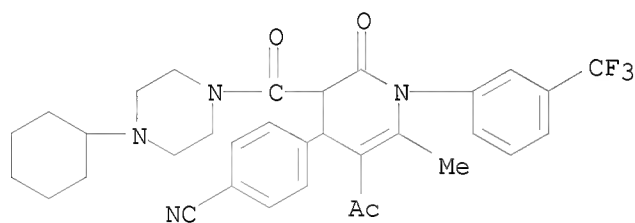
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10/589907



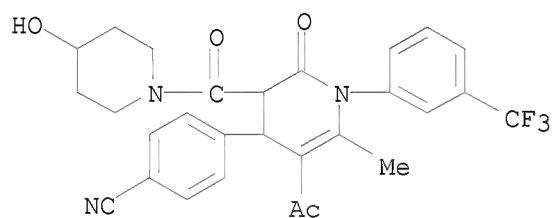
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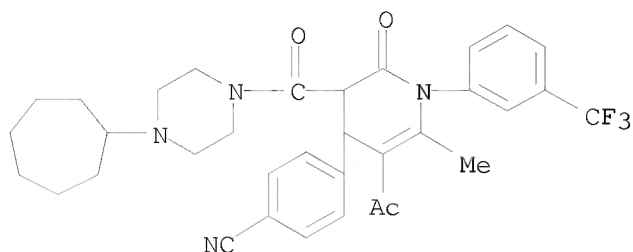
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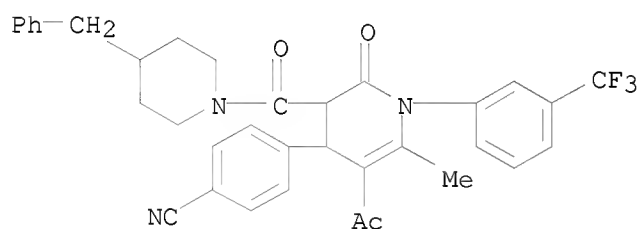
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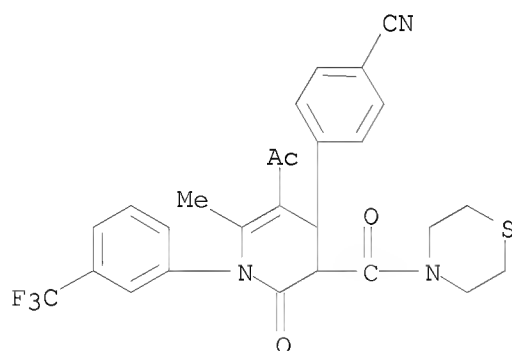
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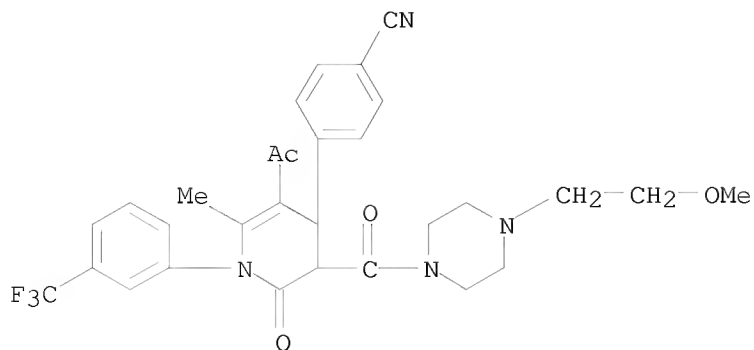


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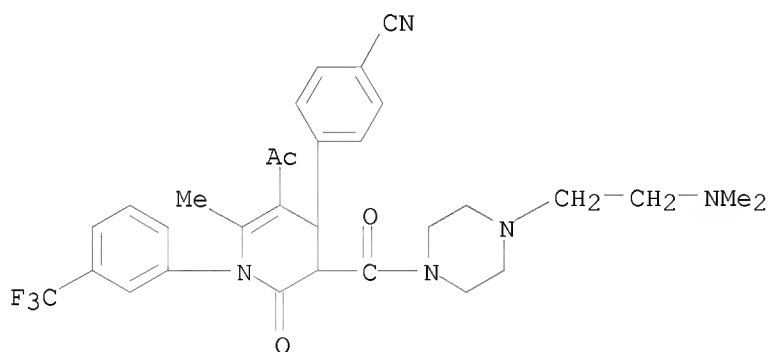
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10/589907



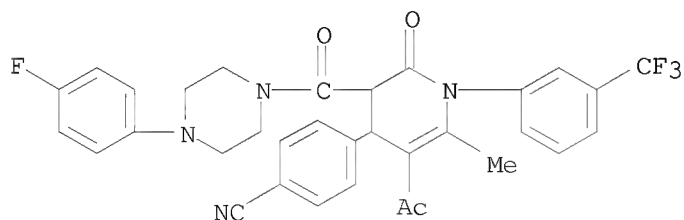
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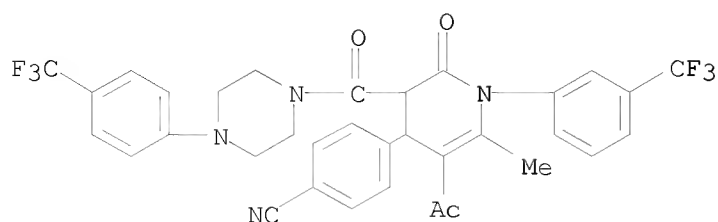
RN 863645-41-4 CAPLUS

CN Benzonitrile, 4-[5-acetyl-3-[[4-(4-fluorophenyl)-1-piperazinyl]carbonyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-4-pyridinyl]- (CA INDEX NAME)



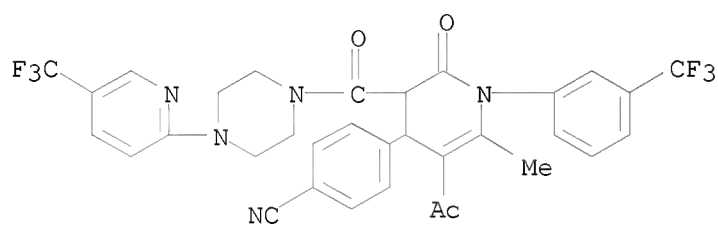
RN 863645-42-5 CAPLUS

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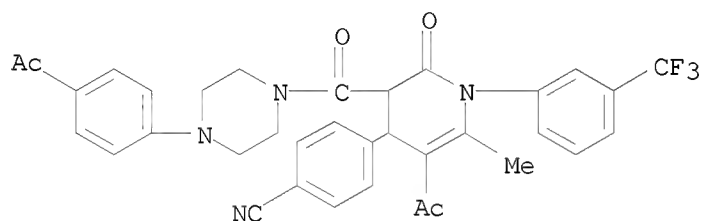
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CN Benzonitrile, 4-[5-acetyl-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-3-[[4-[5-(trifluoromethyl)-2-pyridinyl]-1-piperazinyl]carbonyl]-4-pyridinyl]- (CA INDEX NAME)



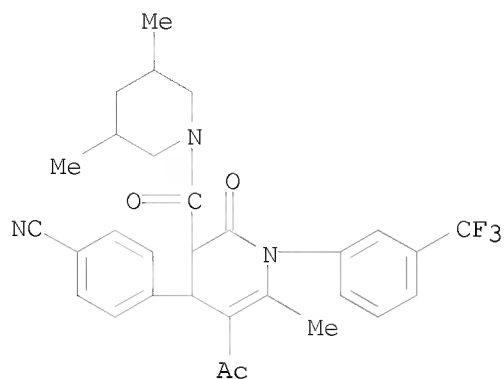
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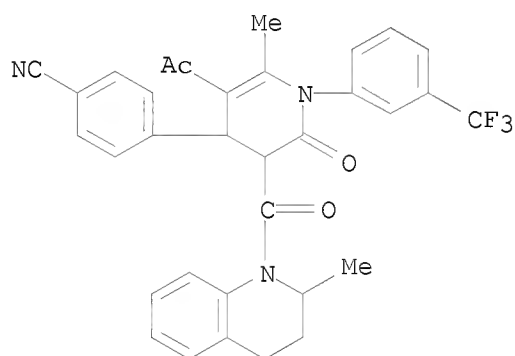
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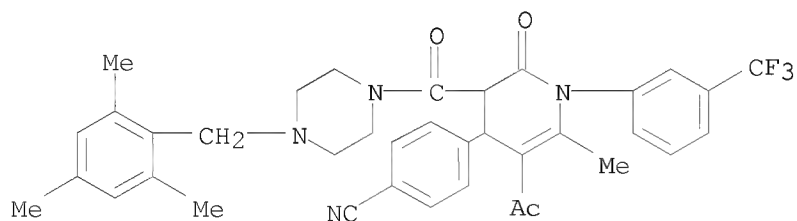
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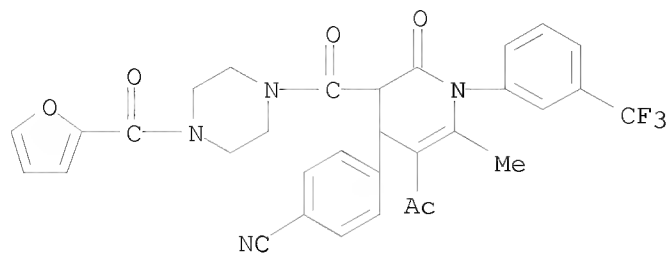
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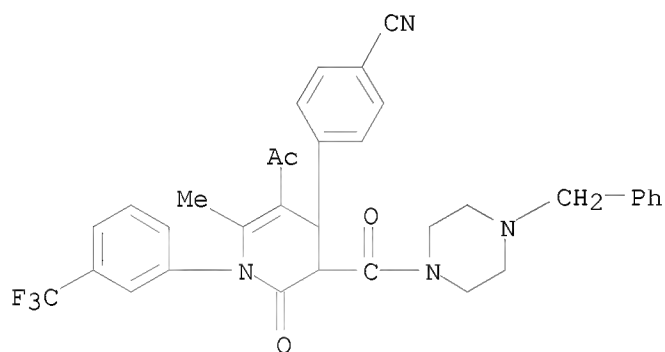
CN Benzonitrile, 4-[5-acetyl-3-[[4-(2-furanylcarbonyl)-1-piperazinyl]carbonyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-4-pyridinyl]- (CA INDEX NAME)

10/589907



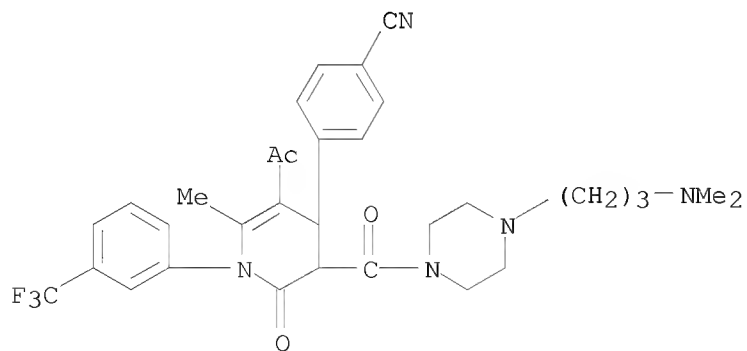
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RN 863645-53-8 CAPLUS

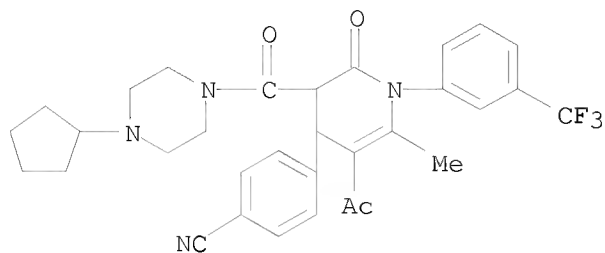
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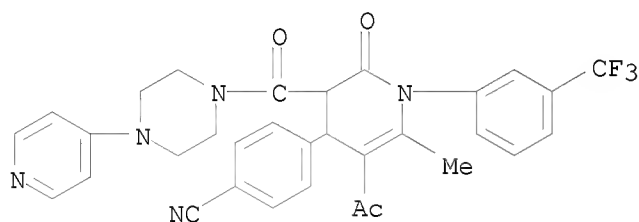
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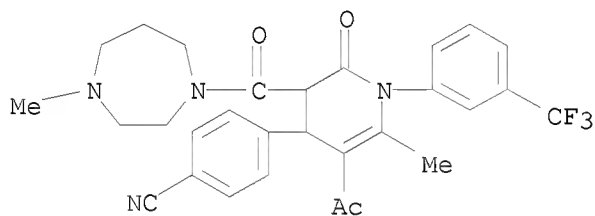
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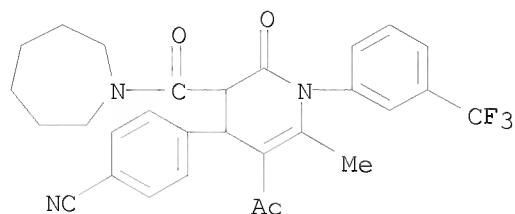
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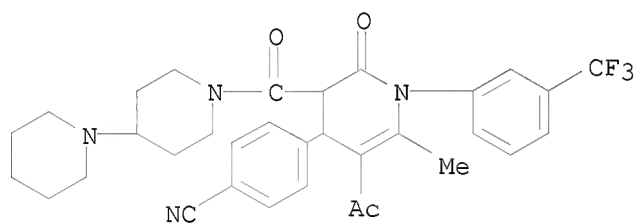
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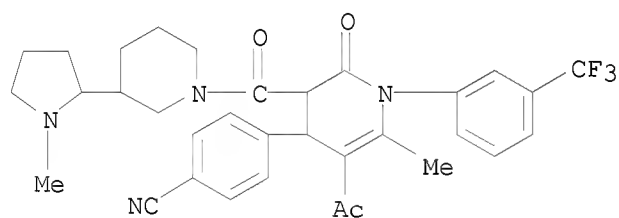
RN 863645-59-4 CAPLUS

CN Benzonitrile, 4-[5-acetyl-3-([1,4'-bipiperidin]-1'-ylcarbonyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-4-pyridinyl]- (CA INDEX NAME)



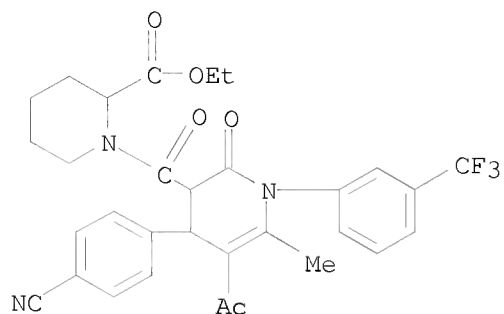
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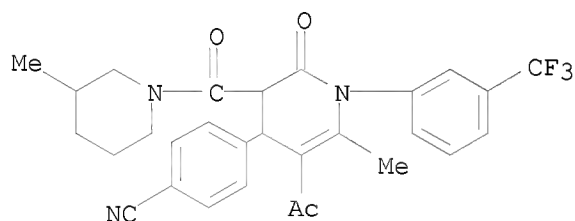
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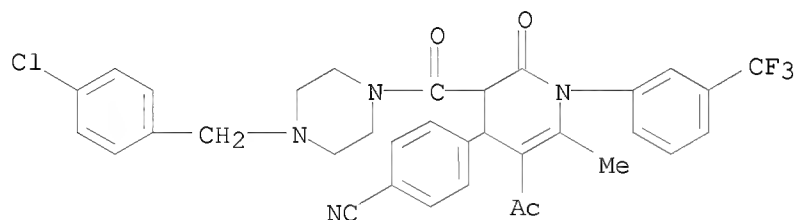
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CN Benzonitrile, 4-[5-acetyl-1,2,3,4-tetrahydro-6-methyl-3-[(3-methyl-1-piperidinyl)carbonyl]-2-oxo-1-[3-(trifluoromethyl)phenyl]-4-pyridinyl]- (CA INDEX NAME)



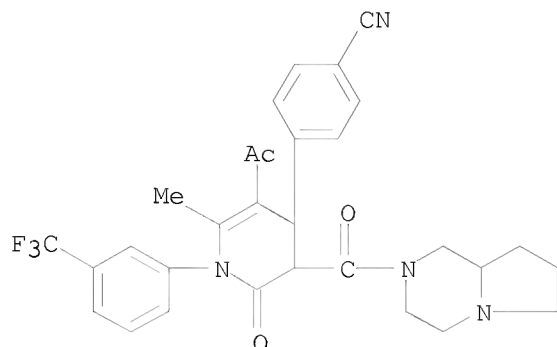
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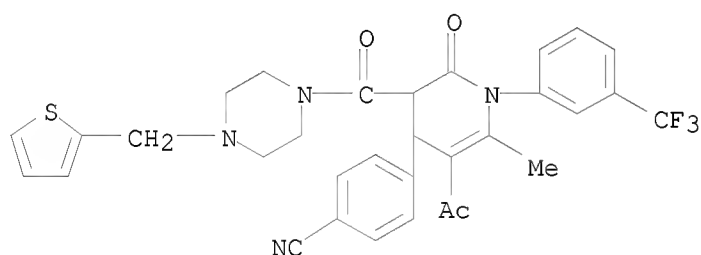
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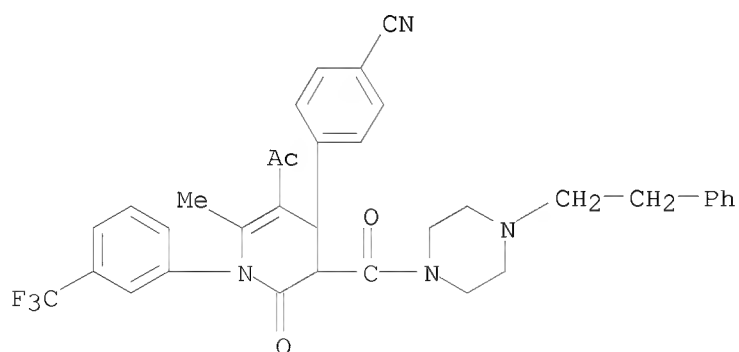
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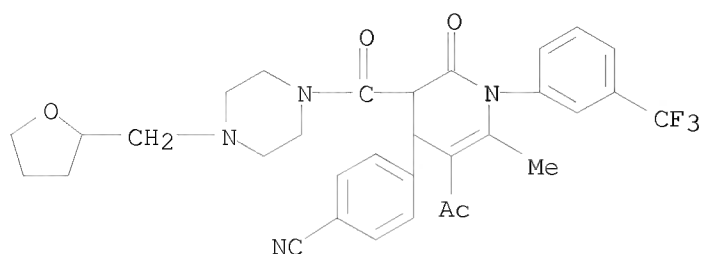
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RN 863645-71-0 CAPLUS

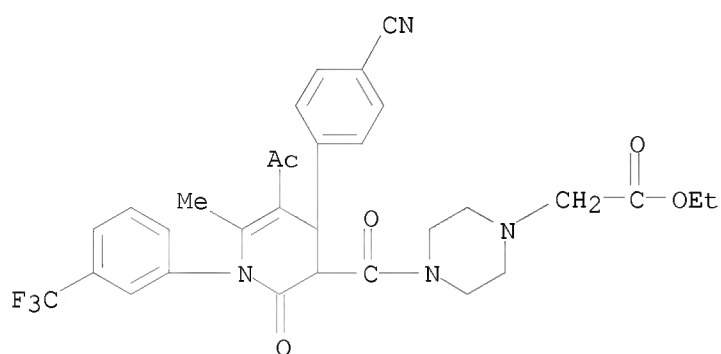
CN Benzonitrile, 4-[5-acetyl-1,2,3,4-tetrahydro-6-methyl-2-oxo-3-[[4-[(tetrahydro-2-furanyl)methyl]-1-piperazinyl]carbonyl]-1-[3-(trifluoromethyl)phenyl]-4-pyridinyl]- (CA INDEX NAME)

10/589907



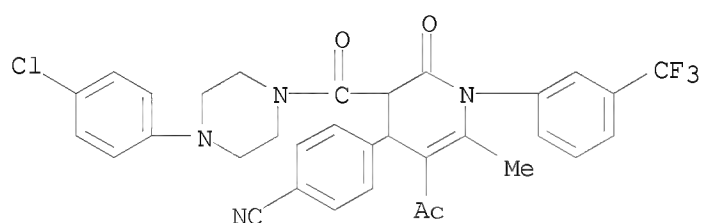
RN 863645-73-2 CAPLUS

CN 1-Piperazineacetic acid, 4-[[5-acetyl-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-3-pyridinyl]carbonyl]-, ethyl ester (CA INDEX NAME)



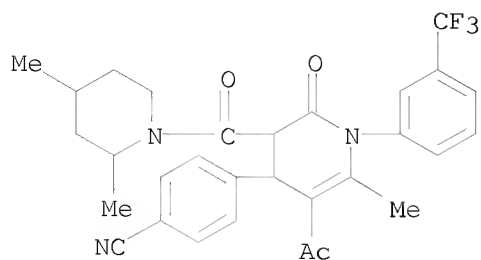
RN 863645-74-3 CAPLUS

CN Benzonitrile, 4-[5-acetyl-3-[[4-(4-chlorophenyl)-1-piperazinyl]carbonyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-4-pyridinyl]- (CA INDEX NAME)



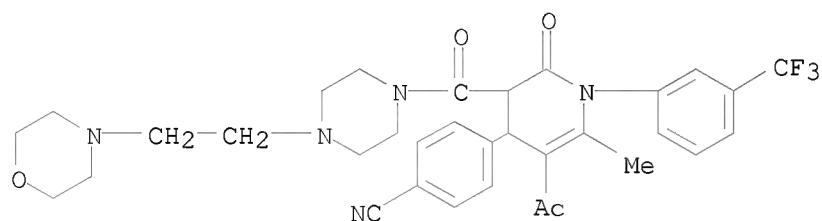
RN 863645-75-4 CAPLUS

CN Benzonitrile, 4-[5-acetyl-3-[(2,4-dimethyl-1-piperidinyl)carbonyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-4-pyridinyl]- (CA INDEX NAME)



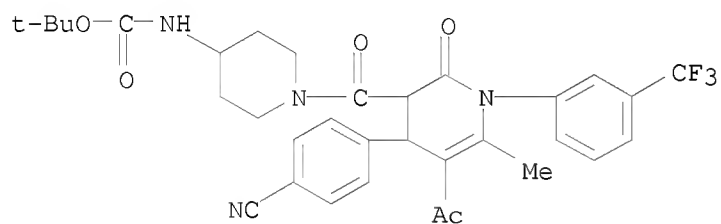
RN 863645-76-5 CAPLUS

CN Benzonitrile, 4-[5-acetyl-1,2,3,4-tetrahydro-6-methyl-3-[[4-[2-(4-morpholinyl)ethyl]-1-piperazinyl]carbonyl]-2-oxo-1-[3-(trifluoromethyl)phenyl]-4-pyridinyl]- (CA INDEX NAME)



RN 863645-78-7 CAPLUS

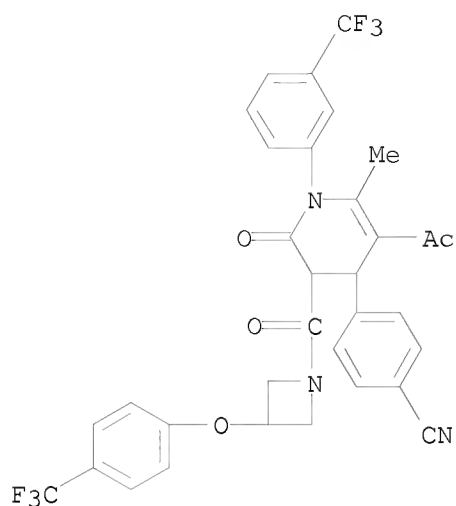
CN Carbamic acid, [1-[[5-acetyl-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-3-pyridinyl]carbonyl]-4-piperidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 863645-80-1 CAPLUS

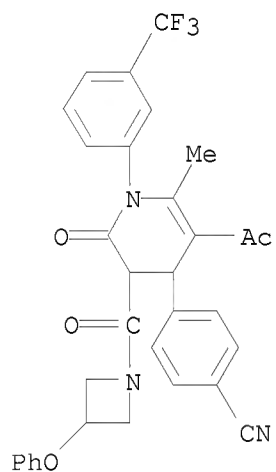
CN Benzonitrile, 4-[5-acetyl-1,2,3,4-tetrahydro-6-methyl-2-oxo-3-[[3-[4-(trifluoromethyl)phenoxy]-1-azetidiny]carbonyl]-1-[3-(trifluoromethyl)phenyl]-4-pyridinyl]- (CA INDEX NAME)

10/589907



RN 863645-81-2 CAPLUS

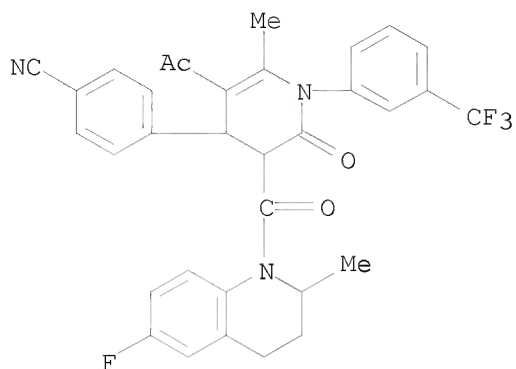
CN Benzonitrile, 4-[5-acetyl-1,2,3,4-tetrahydro-6-methyl-2-oxo-3-[(3-phenoxy-1-azetidinyl)carbonyl]-1-[3-(trifluoromethyl)phenyl]-4-pyridinyl]- (CA INDEX NAME)



RN 863645-83-4 CAPLUS

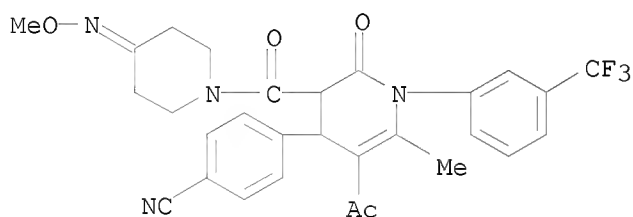
CN Benzonitrile, 4-[5-acetyl-3-[(6-fluoro-3,4-dihydro-2-methyl-1(2H)-quinolinyl)carbonyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-4-pyridinyl]- (CA INDEX NAME)

10/589907



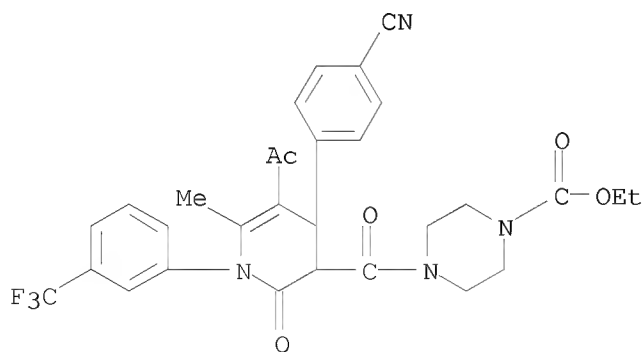
RN 863645-84-5 CAPLUS

CN Benzonitrile, 4-[5-acetyl-1,2,3,4-tetrahydro-3-[[4-(methoxyimino)-1-piperidinyl]carbonyl]-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-4-pyridinyl]- (CA INDEX NAME)



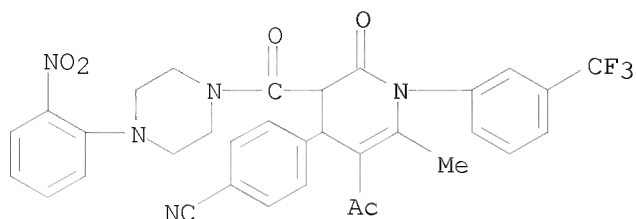
RN 863645-85-6 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[5-acetyl-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-3-pyridinyl]carbonyl]-, ethyl ester (CA INDEX NAME)



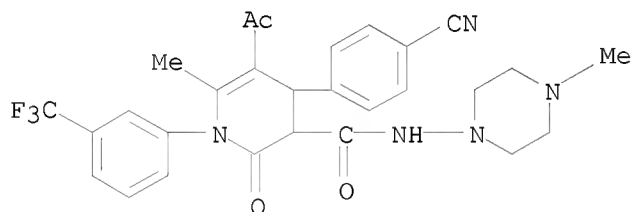
RN 863645-88-9 CAPLUS

CN Benzonitrile, 4-[5-acetyl-1,2,3,4-tetrahydro-6-methyl-3-[[4-(2-nitrophenyl)-1-piperazinyl]carbonyl]-2-oxo-1-[3-(trifluoromethyl)phenyl]-4-pyridinyl]- (CA INDEX NAME)



RN 863646-00-8 CAPLUS

CN 3-Pyridinecarboxamide, 5-acetyl-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-N-(4-methyl-1-piperazinyl)-2-oxo-1-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2004:203810 CAPLUS

DN 140:235612

TI Preparation of dihydropyridinones as human neutrophil elastase (HNE) inhibitors

IN Gielen, Heike; Li, Volkhart Min-Jian; Rosentreter, Ulrich; Schlemmer, Karl-Heinz; Allerheiligen, Swen; Telan, Leila; Baerfacker, Lars; Keldenich, Joerg; Fitzgerald, Mary F.; Nash, Kevin; Albrecht, Barbara; Meurer, Dirk

PA Bayer Healthcare A.-G., Germany

SO PCT Int. Appl., 166 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004020410	A2	20040311	WO 2003-EP9108	20030818
	WO 2004020410	A3	20040422		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA	2496815	A1	20040311	CA	2003-2496815	20030818
AU	2003293356	A1	20040319	AU	2003-293356	20030818
EP	1554246	A2	20050720	EP	2003-790904	20030818
EP	1554246	B1	20070822			
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JP	2006503820	T	20060202	JP	2004-532090	20030818
ES	2293077	T3	20080316	ES	2003-790904	20030818
US	20060100207	A1	20060511	US	2005-525608	20051013
US	7230017	B2	20070612			
PRAI	GB 2002-19894	A	20020827			
	GB 2002-21143	A	20020912			
	WO 2003-EP9108	W	20030818			

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OS MARPAT 140:235612
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [wherein A = hetero/aryl; R1, R2, R3 = independently H, halo, NO2, CN, CF3, (un)substituted alkyl, OH and derivs., R4 = alkenoxycarbonyl, hydroxycarbonyl, CN, (un)substituted alkylcarbonyl, alkoxy carbonyl, alkyl/cycloalkyl/N-(heterocyclyl)/mono/di/aminocarbonyl; R5 = alkyl; R6 = H, CN, cycloalkyl/alkyl/aminocarbonyl, cycloalkylcarbonyl, arylcarbonyl, hydroxycarbonyl, alkenoxycarbonyl, aryloxycarbonyl, (un)substituted mono/di/aryl/aminocarbonyl, alkylcarbonyl, alkoxy carbonyl, or R6 = 4-carbonylpiperazinyl and derivs., 4-carbonylmorpholinyl, etc.; R7 = H, halo, NO2, CN, CF3, OCF3, (un)substituted alkyl, alkoxy; Y1, Y2, Y3, Y4, Y5 = independently CH or N; and their salts, hydrates, and/or solvates, and their tautomeric forms] were prepared as human neutrophil elastase (HNE) inhibitors. For example, II was prepared by cyclocondensation of III (preparation given) with 4-formylbenzonitrile and 2-cyanoacetamide in the presence of EtOH/piperidine, followed by reaction with water in acetic acid. In an in vitro assay, I inhibited HNE with IC50 values within the range of 5 nM - 5 μ M. Thus, I are useful for treatment of chronic obstructive pulmonary diseases, acute coronary syndrome, acute myocardial infarction and heart failure development.

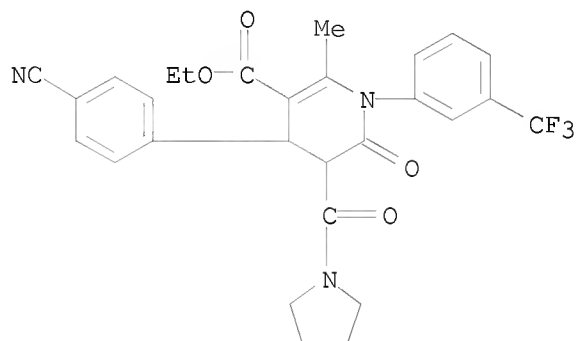
II 668999-20-0P, Ethyl 4-(4-cyanophenyl)-2-methyl-6-oxo-5-[(1-pyrrolidinyl)carbonyl]-1-[3-(trifluoromethyl)phenyl]-1,4,5,6-tetrahydro-3-pyridinecarboxylate 668999-23-3P, Ethyl 4-(4-cyanophenyl)-2-methyl-5-[(4-morpholinyl)carbonyl]-6-oxo-1-[3-(trifluoromethyl)phenyl]-1,4,5,6-tetrahydro-3-pyridinecarboxylate 668999-24-4P, Ethyl 4-(4-cyanophenyl)-2-methyl-6-oxo-5-[(1,3-thiazolidin-3-yl)carbonyl]-1-[3-(trifluoromethyl)phenyl]-1,4,5,6-tetrahydro-3-pyridinecarboxylate 668999-27-7P, Ethyl 4-(4-cyanophenyl)-2-methyl-5-[(4-methyl-1-piperazinyl)carbonyl]-6-oxo-1-[3-(trifluoromethyl)phenyl]-1,4,5,6-tetrahydro-3-pyridinecarboxylate 668999-31-3P, 4-[5-Acetyl-6-methyl-3-[(4-morpholinyl)carbonyl]-2-oxo-1-[3-(trifluoromethyl)phenyl]-1,2,3,4-tetrahydro-4-pyridinyl]benzonitrile 668999-81-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(human neutrophil elastase inhibitor; preparation of dihydropyridinones as human neutrophil elastase inhibitors)

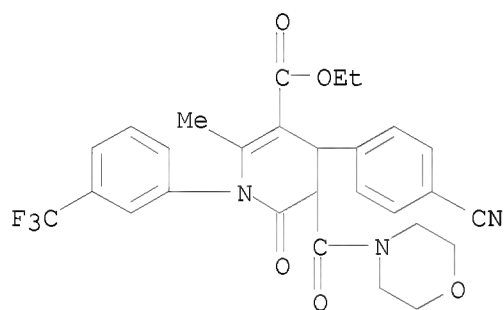
RN 668999-20-0 CAPLUS

CN 3-Pyridinecarboxylic acid, 4-(4-cyanophenyl)-1,4,5,6-tetrahydro-2-methyl-6-oxo-5-(1-pyrrolidinylcarbonyl)-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



RN 668999-23-3 CAPLUS

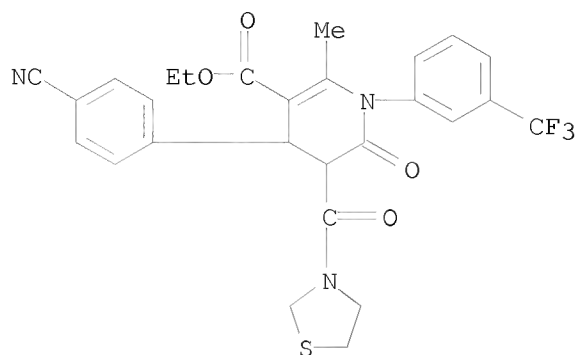
CN 3-Pyridinecarboxylic acid, 4-(4-cyanophenyl)-1,4,5,6-tetrahydro-2-methyl-5-(4-morpholinylcarbonyl)-6-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



RN 668999-24-4 CAPLUS

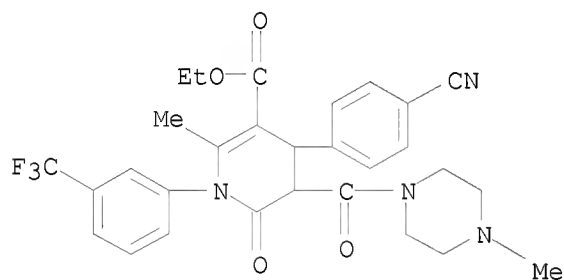
CN 3-Pyridinecarboxylic acid, 4-(4-cyanophenyl)-1,4,5,6-tetrahydro-2-methyl-6-oxo-5-(3-thiazolidinylcarbonyl)-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)

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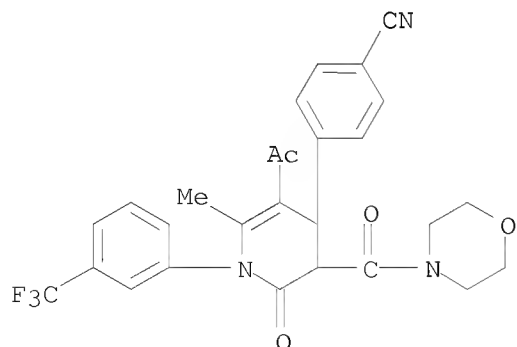
RN 668999-27-7 CAPLUS

CN 3-Pyridinecarboxylic acid, 4-(4-cyanophenyl)-1,4,5,6-tetrahydro-2-methyl-5-[(4-methyl-1-piperazinyl)carbonyl]-6-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



RN 668999-31-3 CAPLUS

CN Benzonitrile, 4-[5-acetyl-1,2,3,4-tetrahydro-6-methyl-3-(4-morpholinylcarbonyl)-2-oxo-1-[3-(trifluoromethyl)phenyl]-4-pyridinyl]- (CA INDEX NAME)

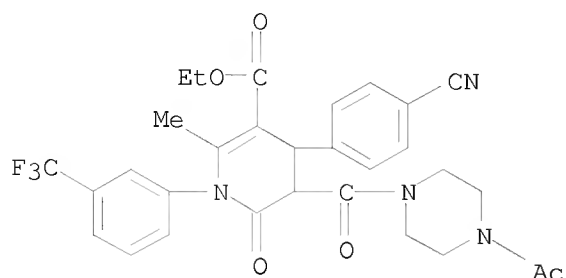


RN 668999-81-3 CAPLUS

CN 3-Pyridinecarboxylic acid, 5-[(4-acetyl-1-piperazinyl)carbonyl]-4-(4-cyanophenyl)-1,4,5,6-tetrahydro-2-methyl-6-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)

10/589907

(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



OSC.G 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
11.78	215.13

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-1.64	-3.28

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 12:47:44 ON 22 OCT 2009